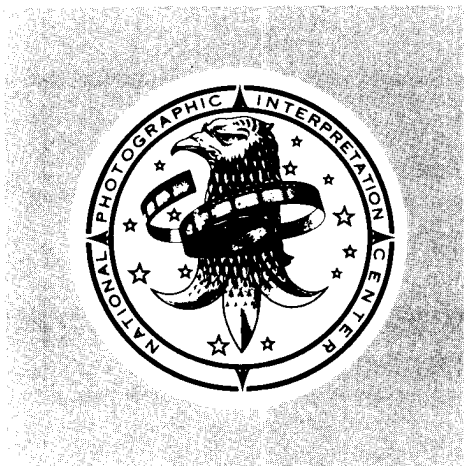


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NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

## Summary Report

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# CANDID AIRCRAFT MODIFICATIONS USSR (S)

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OCTOBER 1977

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SR-081/77

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**DISSEMINATION CONTROL ABBREVIATIONS**

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
REL . . . -	This Information has been Authorized for Release to . . .

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**CANDID AIRCRAFT MODIFICATIONS, USSR (S)**

(TSR) Three modifications to the CANDID aircraft were identified recently at Tashkent Airfield [REDACTED], the test and flyaway field for Tashkent Airframe Plant B Chkalov 84 [REDACTED] USSR. 25X1

(TSR) One modification (Figure 1) was identified [REDACTED]. What appeared to be a hoselike object was seen extending aft and down from the aft portion of the fuselage. The object was resting on a probable work platform beneath the aft portion of the fuselage. Although observation of the aft portion of the fuselage was partially obscured by the horizontal stabilizer, the shadow cast on the apron was instrumental in this assessment. 25X1

(TSR) The same CANDID aircraft (Figure 2) was observed again [REDACTED] in a position across the parking apron from where it had been [REDACTED]. The Bort number was positively identified as 86723 on both days. [REDACTED] the hoselike object was not visible, and no work platform was under the tail section of the aircraft. However, an extension to the aft portion of the fuselage was identified. This extension appeared to be cylindrical, although it could be hexagonal in cross section. Insufficient image quality precluded an accurate determination of the exact geometric shape. This extension may have been observed for the first time on coverage [REDACTED] (Figure 1). At that time the shadow what appeared to be a cylindrical attachment/extension resting on the probable work platform was observed. Based on the appearance of this shadow, the extension was either being emplaced at that time or had been temporarily removed for servicing/maintenance. 25X1

(TSR) Mensural analysis indicates that the fuselage length of this CANDID aircraft (Bort number 86723) is 45.0 meters. This is an increase [REDACTED] in fuselage length when compared to the [REDACTED] fuselage length generally associated with the CANDID aircraft. The diameter/cross section of this extension was determined to be 2.0 meters. 25X1

(TSR) Another modification to the aft portion of the CANDID fuselage was seen on imagery [REDACTED]. This modification appeared to be conical rather than cylindrical/hexagonal. This modification was reported in a previous NPIC report.\* Mensural analysis of the CANDID aircraft with this modification revealed a fuselage length of [REDACTED] length generally associated with CANDID aircraft. A Bort number could not be seen on this aircraft because the wings were canvas covered. 25X1

(TSR) These two modifications could indicate the existence of a CANDID tanker. It is possible that these modifications, while dissimilar in appearance, are actually identical. The 25X1

agery of the modified CANDID aircraft (conical extension). No final determination about the similarity of the two modifications could be made. If these modifications are different, the cylindrical/hexagonal tail extension appears to be a more suitable approach to modifying the CANDID aircraft for use as a tanker. If the CANDID aircraft with Bort number

\*NPIC. [REDACTED] IIR-065/77, *Modified CANDID Aircraft at Tashkent Airfield, USSR (TSR)*, 21 Sep 25X1  
(TOP SECRET RUFF [REDACTED]) 25X1

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86723 is a tanker, the activity observed on coverage [ ] may be indicative of the late stages in the modification process, or it may be indicative of a refueling system test or repairs on an aircraft built as a tanker.

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(TSR) A third modification (Figure 4) to the external appearance of a CANDID aircraft was observed on coverage [ ]. On this CANDID aircraft (Bort number 86732), two probable rail antennas were symmetrically set fore-to-aft, one on each side of the rectangular "window" atop the fuselage just aft of the wings. Continuing analysis revealed that this is the second CANDID aircraft observed incorporating this modification. The first CANDID aircraft (Bort number 86641) to incorporate this modification was seen at Tashkent Airfield [ ] and at Taganrog Airfield [ ].

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(TSR) The CANDID with Bort number 86732 was probably at Tashkent Airfield [ ]. [ ] Although the imagery was of insufficient quality to allow identification of the Bort number, the probable antennas were discernible and the aircraft was parked in the same location on the parking apron as was the CANDID with Bort number 86732 [ ].

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(TSR) Probable antennas, although of a different type, were previously seen in much the same position on CANDID aircraft. These probable antennas were similar in configuration to antennas seen on some CUB aircraft. The antennas on the CUB aircraft are mounted on top of the fuselage just aft of the wings. The probable antennas previously observed on the CANDID, however, were covered prior to completion of the aircraft. Thus, unlike the probable rail antennas recently identified on two CANDID aircraft (Bort numbers 86732 and 86641), these probable antennas do not protrude from the CANDID fuselage.

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(TSR) The reasons for the addition of the probable rail antennas have not been determined. However, it may be noteworthy that the probable rail antennas have been seen on only one aircraft in each of two production bands of CANDID.

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## List of Conversion Factors by Classification

### UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

### UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

### UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

### UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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